QC ABSTRACT

NAME OF WORK: Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1

A.E.E

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 16-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-22
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	14-03-22
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	320	320	2.9	97.1	95-100
22.4	2265	2585	23.5	76.5	60-80
11.2	2185	4770	43.4	56.6	40-60
4.75	2245	7015	63.8	36.2	25-40
2.36	1645	8660	78.7	21.3	15-30
0.6	635	9295	84.5	15.5	8-22
0.075	1352	10647	96.8	3.2	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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Quality Manager

Page 1/1
End of Report

A.E.E

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 16-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer Reference	:	BBMP/EE/YNK/LPMT-13/W.O/96/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	14-03-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.8	74.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 16-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No.28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-03-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	14-03-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.9%	
Combined Flakiness and Elongation Index for WMM	25.5%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 21-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer's Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	18-03-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	51.6	Min. 40°C
3	Ductility, cm	96	Min. 75cm
4	Flash point, °C	239	Min. 220°C
	Fire point, °C	285	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2022-08-08-08	**Date: 25-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085	
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-03-22	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	23-03-22	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	95	95	1.9	98.1	90-100
9.5	655	750	15.0	85.0	70-88
4.75	985	1735	34.7	65.3	53-71
2.36	625	2360	47.2	52.8	42-58
1.18	365	2725	54.5	45.5	34-48
0.6	450	3175	63.5	36.5	26-38
0.3	659	3834	76.7	23.3	18-28
0.15	365	4199	84.0	16.0	12-20
0.075	365	4564	91.3	8.7	4-10
PAN	435	4999	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-08-08-08**	**Date: 26-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085	
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22	
Source of Sample	:	Sample supplied by Agency.	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-03-22	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	23-03-22	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 26-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-03-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-08-08-08** **Date: 26-03-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-03-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID	:	CP-RW-2022-08-08-08	Date: 31-03-22
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085	
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W.O/96/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	30-03-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	30-03-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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Lab ID : CP-RW-2022-08-08-08 Date: 31-03-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0 0	100 0	100
13 2	4	4	0 8	99 2	90-100
9 5	62	66	14 0	86 0	70-88
4 75	112	178	37 8	62 2	53-71
2 36	88	266	56 5	43 5	42-58
1 18	29	295	62 6	37 4	34-48
0 6	11	306	65 0	35 0	26-38
0 3	46	352	74 7	25 3	18-28
0 15	45	397	84 3	15 7	12-20
0 075	40	437	92 8	7 2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0 0	100 0	100
13 2	4	4	0 8	99 2	90-100
9 5	62	66	14 0	86 0	70-88
4 75	112	178	37 7	62 3	53-71
2 36	88	266	56 4	43 6	42-58
1 18	29	295	62 5	37 5	34-48
0 6	11	306	64 8	35 2	26-38
0 3	46	352	74 6	25 4	18-28
0 15	45	397	84 1	15 9	12-20
0 075	55	452	95 8	4 2	4-10

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Lab ID : CP-RW-2022-08-08-08 **Date: 26-04-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	82	92	19.6	80.4	70-88
4.75	98	190	40.4	59.6	53-71
2.36	62	252	53.6	46.4	42-58
1.18	45	297	63.2	36.8	34-48
0.6	32	329	70.0	30.0	26-38
0.3	41	370	78.7	21.3	18-28
0.15	35	405	86.2	13.8	12-20
0.075	42	447	95.1	4.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	99	107	22.7	77.3	70-88
4.75	91	198	42.0	58.0	53-71
2.36	59	257	54.6	45.4	42-58
1.18	33	290	61.6	38.4	34-48
0.6	25	315	66.9	33.1	26-38
0.3	62	377	80.0	20.0	18-28
0.15	30	407	86.4	13.6	12-20
0.075	33	440	93.4	6.6	4-10

* The results obtained are satisfactory as per standard requirements

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-08-08-08**	**Date: 30-05-22**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore	
Project Name	:	Providing Pothole Filling in Chowdeshwari Ward No 02 of Yelahanka Sub Division	
Agency	:	Sri. M N RAMAIAH, No:28, 5th Main, Dattatrayanagar, Bangalore-560085	
Customer Reference	:	BBMP/EE/YNK/EPMT-13/W O/96/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	28-05-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	28-05-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	503
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B \times 100}{A}$	5.99	6.16
4	Average percentage	%	6.1	

FOR CIVIL Pro.

CIVIL Pro Sig ..... Date ..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AG-02

A.E.E

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-RW-2022-08-08-08 **Date: 30-05-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	66	71	15.1	84.9	70-88
4.75	110	181	38.4	61.6	53-71
2.36	59	240	51.0	49.0	42-58
1.18	55	295	62.6	37.4	34-48
0.6	40	335	71.1	28.9	26-38
0.3	40	375	79.6	20.4	18-28
0.15	28	403	85.6	14.4	12-20
0.075	44	447	94.9	5.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	1	1	0.2	99.8	90-100
9.5	99	100	21.2	78.8	70-88
4.75	92	192	40.7	59.3	53-71
2.36	71	263	55.7	44.3	42-58
1.18	30	293	62.1	37.9	34-48
0.6	24	317	67.2	32.8	26-38
0.3	58	375	79.4	20.6	18-28
0.15	28	403	85.4	14.6	12-20
0.075	39	442	93.6	6.4	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part
Samples will be disposed after 30 days from the date of issue of test certificate

AG-0

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

K KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

A.E.E